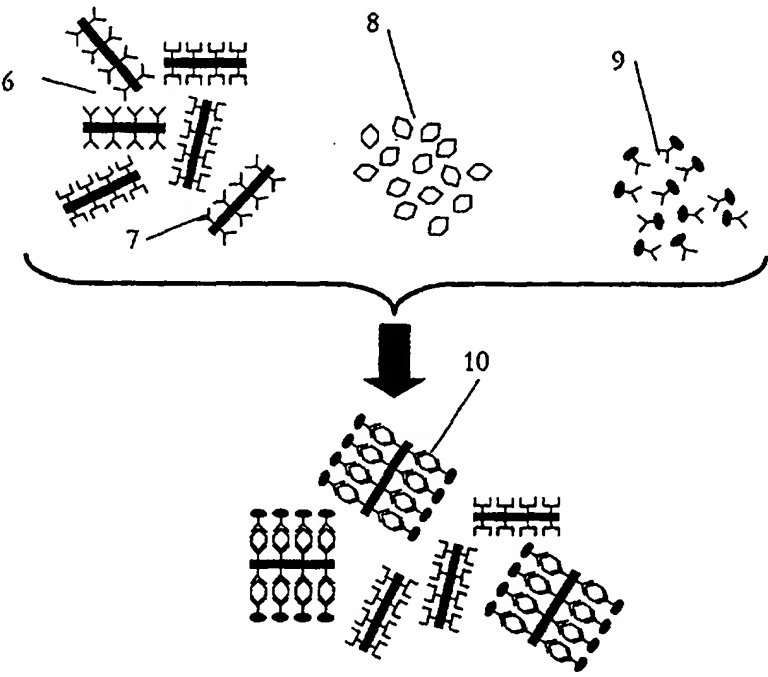




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification 7 : B01J 19/00, G06K 19/06, G01N 33/53, C25D 11/04</p>	<p>A3</p>	<p>(11) International Publication Number: <b>WO 00/16893</b></p> <p>(43) International Publication Date: 30 March 2000 (30.03.00)</p>
<p>(21) International Application Number: PCT/GB99/03109</p> <p>(22) International Filing Date: 17 September 1999 (17.09.99)</p> <p>(30) Priority Data: 9820163.5 17 September 1998 (17.09.98) GB</p> <p>(71) Applicant (for all designated States except US): SENTEC LIMITED [GB/GB]; Patent Department, Terrington House, 13-15 Hills Road, Cambridge, Cambridgeshire CB2 1GE (GB).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): DAMES, Andrew [GB/GB]; 74 de Freville Avenue, Cambridge, Cambridgeshire CB4 1HU (GB). ENGLAND, James [GB/GB]; 44A Butt Lane, Milton, Cambridge, Cambridgeshire CB4 6DG (GB). COLBY, Edward [GB/GB]; 45 Argyl Road, Cambridge, Cambridgeshire CB1 3LR (GB).</p>		<p>(81) Designated States: AU, CN, IN, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published With international search report.</p> <p>(88) Date of publication of the international search report: 24 August 2000 (24.08.00)</p>
<p>(54) Title: BIO-ASSAY TECHNIQUE</p> <p>(57) Abstract</p> <p>The present invention relates to a system for carrying out parallel bioassays. Micro-fabricated labels (7) are made to each carry a biochemical test, many different labels are mixed together with an analyte sample (8). A device that reads the individual labels isolates the results of the individual tests. The microfabricated labels have a surface layer of anodised metal and are produced by anodising, lithographic patterning and etching steps. Aluminum is the preferred metal.</p> 		

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## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB 99/03109

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7	B01J19/00	G06K19/06 G01N33/53 C25D11/04
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC 7 B01J G06K G01N C25D		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 395 300 A (ALCAN INT LTD) 31 October 1990 (1990-10-31) abstract	1-3,7-13
A	page 4, line 22 - line 30; claims 1,10,12,17-26; figures 3-5; examples 1,3	20-22
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A	page 6, paragraph 3 - page 7, paragraph 1; figure 1	4
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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Date of the actual completion of the international search		Date of mailing of the international search report
15 May 2000		23.05.00
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  Veefkind, V

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Int. Appl. No.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RIGBY W R ET AL.: "An anodizing process for the production of inorganic microfiltration membranes" TRANSACTIONS OF THE INSTITUTE OF METAL FINISHING, vol. 68, August 1990 (1990-08), pages 95-98, XP002130485 the whole document	1-3,7-14
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 08, 30 August 1996 (1996-08-30) & JP 08 102544 A (SATO YOICHI), 16 April 1996 (1996-04-16)	1-3
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Y	page 17, line 28 -page 18, line 4 page 37, line 1 - line 20; figure 33 page 148, line 9 - line 28 page 160, line 3 - line 13 page 182, line 9 - line 18 page 35, line 27 -page 36, line 9; figures 19-32 page 76, line 3 -page 77, line 2	25
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A	LAURELL T ET AL: "ENHANCED ENZYME ACTIVITY IN SILICON INTEGRATED ENZYME REACTORS UTILIZING POROUS SILICON AS THE COUPLING MATRIX" SENSORS AND ACTUATORS B,CH,ELSEVIER SEQUOIA S.A., LAUSANNE, vol. 31, no. 3, 1 March 1996 (1996-03-01), pages 161-165, XP000630913 ISSN: 0925-4005 the whole document	1-3,7-14

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Int. J. Appl. No.

PCT/GB 99/03109

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 96 24061 A (ONTOGEN CORP)  8 August 1996 (1996-08-08)  cited in the application  page 47, line 6 -page 49, line 29; claims  14-53; figure 7</p> <p>-----</p>	14,20-23

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 99/03109

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-14,16,17,20-23

Claims 1-3,7,8,13,14,16,17,23, related to a solid support with an anodised metal surface layer,  
Claims 4-6, related to a method of fabricating such support,  
Claims 9-12, related to a method of fabricating such support,  
Claims 20-22, related to a process of separating results of many binding experiments.

2. Claims: 15,18,19,24,25

Claims 15,18,19,24,25, related to an optical reader.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 99/03109

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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